PV Master APP

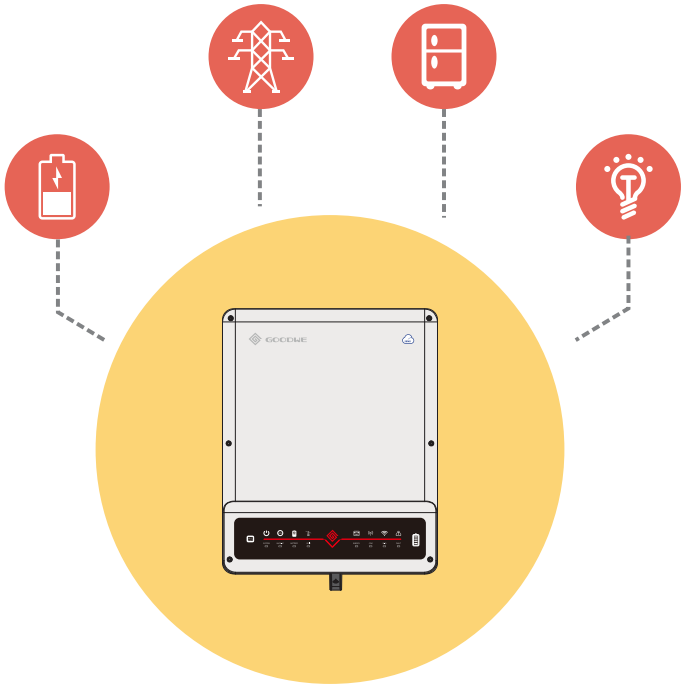
SEMS Portal APP

SEMS Portal website
www.semsportal.com

LinkedIn

Company's
offical website

GOODWE
YOUR SOLAR ENGINE



BT QUICK INSTALLATION INSTRUCTIONS

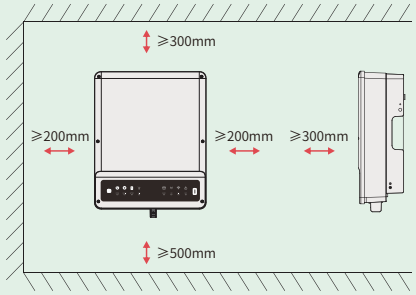
PART 1	PART 2	PART 3
QUICK INSTALLATION	BATTERY CONNECTION	Wi-Fi CONFIGURATION

340-00329-00

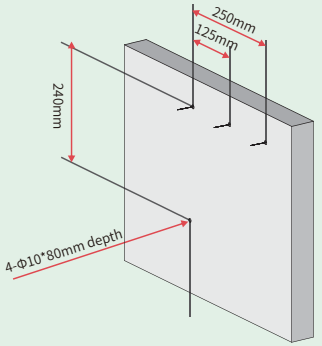
Step 1. Instrucitons for quick installation

A Installation space

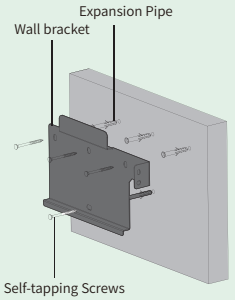
Upward ----------300mm
Downward ----------500mm
Front ----------300mm
Left and right side ---------200mm



B Dimensions for drilling holes

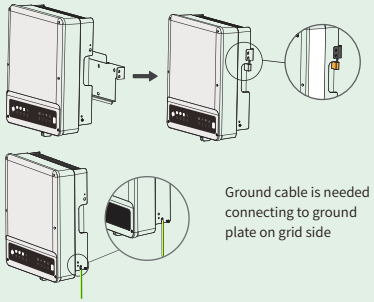


C Fix the wall bracket



D Installation

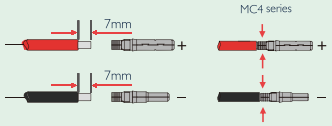
Inverter could be locked for anti-theft, if it is needed.

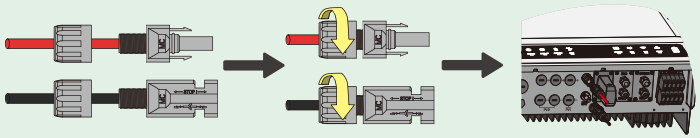


Ground cable is needed connecting to ground plate on grid side

E Battery wiring assembly and connection

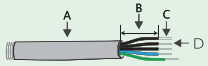
Grade	Description	Value
A	Outside diameter insulation	5.5-8.0 mm
B	Conductor core section	4-6 mm²
C	Conductor core length	7 mm





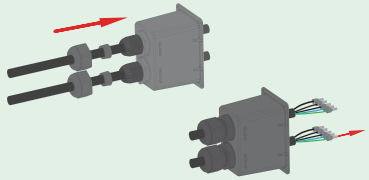
F AC cable assembly and connection

AC Calbe:6mm² Copper Conductor Material



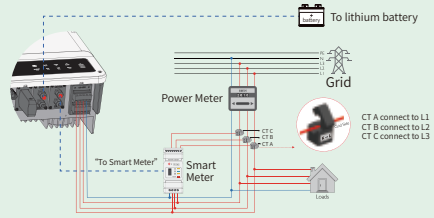
Grade	Description	Value
A	Outside diameter	13-18 mm
B	Separated wire length	20-25 mm
C	Conductor wire length	7-9 mm
D	Conductor core section	4-6mm²

Prepare the terminals and AC cables according to the left table



Note: Make sure the cables (L/N/PE) are connected to right position

G Dimensions for drilling holes

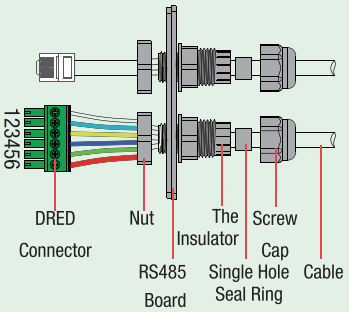


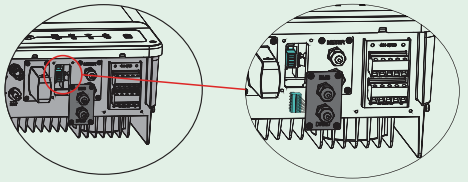
Note: 1. To battery communication cable (Battery fails to work while communication failure)
2. To Smart Meter communication cable. (could be extendet to max 100m)

H DRED cable assembly

⚠ DRED connection is only available for Australia and New Zealand.

NO	1	2	3	4	5	6
Function	DRM1/5	DRM2/6	DRM3/7	DRM4/8	REFGEN	COM / DRMO

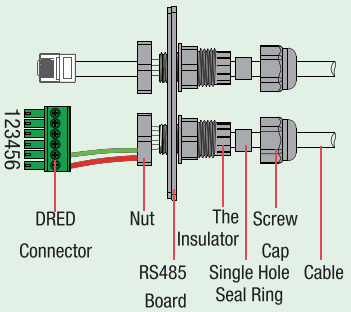


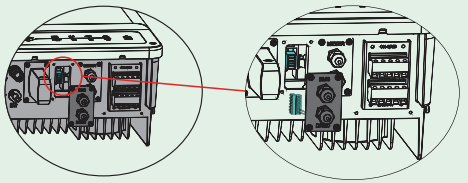


I Remote Shutdown

⚠ Remote Shutdown is only available for Europe.

NO	5	6
Function	REFGEN	COM / DRMO

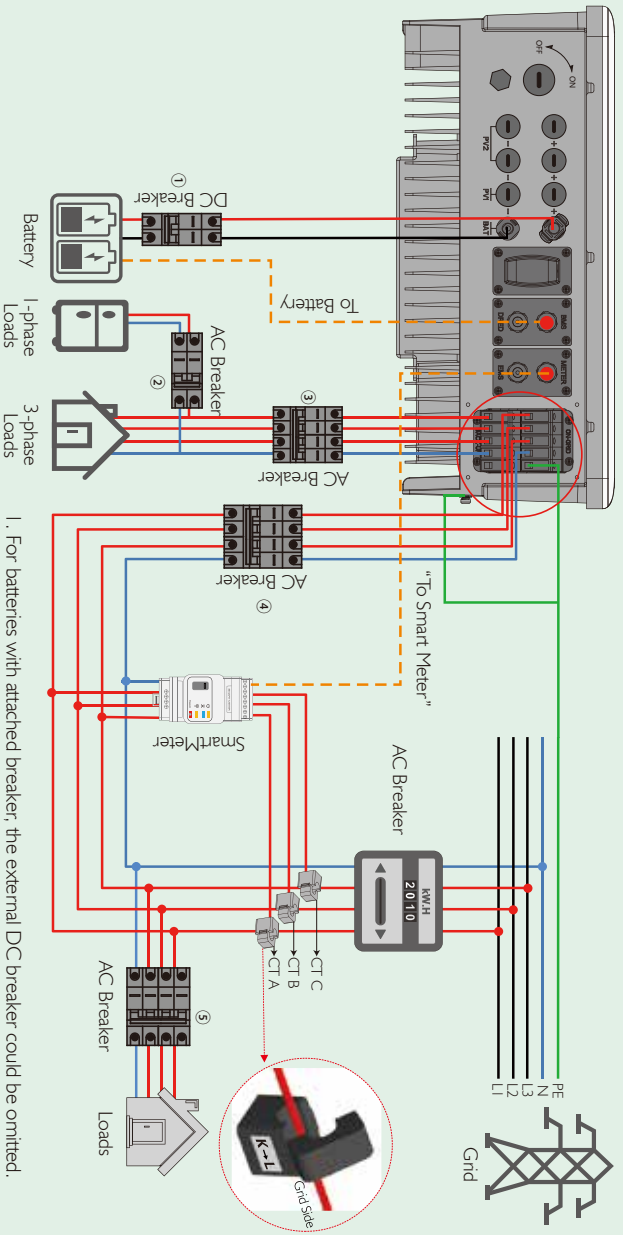




J

WIRING SYSTEM FOR BT SERIES HYBRID INVERTER

Note: This diagram indicated wiring structure of BT series AC coupled inverter, not the electric wiring standard.



Please select Breaker according to the specification below

	①	②	③	④	⑤
GW5K-BT	40A/600V DC breaker	25A/400V AC breaker			Depends on household loads
GW6K-BT					
GW8K-BT		32A/400V AC breaker			
GW10K-BT		32A/400V AC breaker			

1. For batteries with attached breaker, the external DC breaker could be omitted.
2. Please use CT A for L1, CT B for L2 and CT C for L3. And follow "House(K) →Grid(L)" direction to do the connection. Otherwise there will be an error reminded by APP.

Step1
Instructions for quick installation
Step2
SOP of battery connection
Step3
Wi-Fi configuration instruction

Step 2. SOP of Battery connection with BT inverter

BYD Pylon

Note: This manual only tells connection methods between battery and GoodWe inverters. Other operations on battery, please refer to battery user manual. (This Quick Reference only includes parts of batteries, if there is a subsequent increase in battery, there will be no further notice.)

I. BYD

For BYD Battery-Box H6.4 / 7.7 / 9.0 / 10.2 / 11.5 with BT inverter

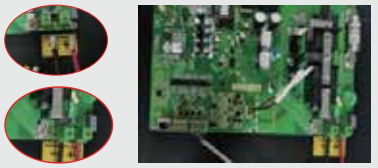
Note: In the gridless area, battery does not support off-grid applications. (There will be no further notice if this entry is subject to change)

A

⚠ Make sure that the inverter and battery pack is turned off before connecting the battery pack to the inverter.

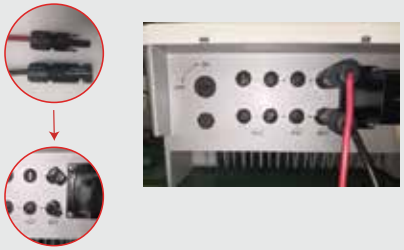
B

To connect the cables coming from the inverter to the BYD battery pack, take the following steps.
Connect the power cables to the terminal block of BYD battery management unit (BMU).
Connect the negative cable to "P-" and the positive cable to "P+".



C

Connect the other end of the power cable to the terminal block of the hybrid inverter.



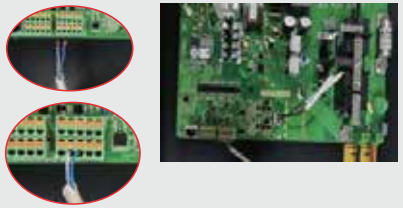
D

The communication cable for battery is attached on the inverter, Please use this cable as battery communication cable.

EIA/TIA568B

E

The other end of "To Battery" cable should be connected to CAN port of BYD BMU box. Before this, you should pick out the blue-white life and the blue line. Then, connect the blue-white line to the second hole site, and connect the blue line to the third hole site.



F

On PV Master, you should choose the right battery type used in your system by "Battery Model" selection or battery communication will fail.

⚠ BYD Battery Setting: You should set "Series Battery Counts" and "Invert" (GoodWe) correctly through BYD WiFi of Ethernet. (Refer to BYD QUICK REFERENCE GUIDE to connect WiFi or Ethernet)

G

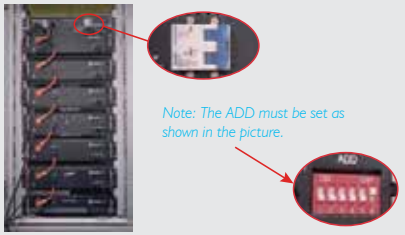
After all connections and settings are done, please check if battery communication is OK on PV Master→ Param → BMS Status, which should be "Communication OK"

2. Pylon

For Pylon Power Cube-H1-48 192/240/288/336 with inverter.
Note: The SOC of battery can be charged up to 90%, but can't be charged to 100%.
(There will be no further notice if this entry is subject to change.)

A

⚠ Make sure that the inverter and the battery pack is turned off before connecting the battery pack to the inverter



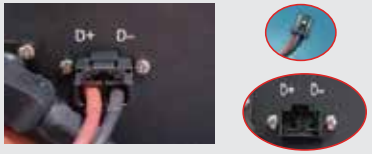
Note: The ADD must be set as shown in the picture.

B

To connect the battery packs in serise, follow the instructions below.
(1)Connections of the power cable:
Connect "B+" of BMU(battery management unit) to "B+" of the first battery pack, and connect "B-" of BMU to "B-"of the last battery pack.
Connect "B+" with "B-" between adjacent battery packs. The orange end corresponds to "B+", the black end corresponds to "B-".
(2) Connections of communication cable:
Connect "Link Port" of BMU to "Link Port0" of the first battery pack.
For the adjacent battery packs, connect "Link Port1 " to the next battery packs "Link Port0" in turn.

C

To connect the cables coming from the inverter to the Pylon Battery pack, take the following steps.
Connect the power cables to the terminal block of Pylon BMU.
Connect the positive calbe to "P+" and the negatiive to "P-".



D

Connetct th other end of the power cable to the terminal block of the inverter.

E

The communication cable for battery is attached in the inverter.
Please use the BMS cable as battery communication cable.
The other end of "To Battery" cable should be connected to CAN/Link Port B of Pylon BMU.

F

Turn on the battery switch, then press the red button for 2 seconds, the status light will turn green. Wait for about 30 seconds, if the BMS communication is normal, the status light remains green, and battery works soon later. Otherwise, the status light turns red, press the red button for 5 seconds. When the status light turns green again, the battery system is ready to work.(Pic.6)

G

On PV Master,you should choose the right battery type used in your system by "Select Battery Model" selection or battery communication will fail.

H

After all connections and settings are done, please check if battery communication is OK on PV Master → Param → BMS status, which should be "Normal".(Pic.8)

Step 3. Wi-Fi conguration instruction

Note: Wi-Fi Configuration could also be done on PV Master APP, for details, please download "PV Master Operation Introduction" from www.en.goodwe.com

A

Preparation

1. Power Wi-Fi inverter (or Power on inverter) on.
2. Power router on.

C

Preparation

Press "Start Setup" to enter the next step.

Device information	
Firmwave version	V1.0.4.0
MAC address	98D8631AA878
Wireless AP mode	**Enable**
SSID	Solar-WiFi
IP address	10.10.100.253
Wireless STA mode	Disable
Router SSID	WiFi_Burn-in
Encryption algorithm	WPA/WPA2-PSK
Router Password	AES
Router Password	WiFi_Burn-in

Cannot join the network, maybe caused by:
router doesn't exist, or signal is too weak, or password is incorrect.

★**Help:** Wizard will help you to complete setting within one minute.

Start Setup

If the router is not in the site list, please refer to No.4 in 'Troubleshooting'.

E

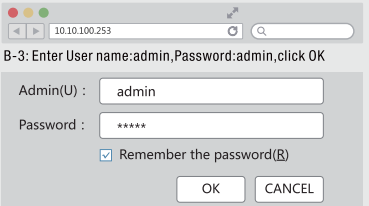
Troubleshooting

No.	Problem	Checking items
1	Cannot Find Solar-WiFi Signal	1. Make sure inverter is powered on; 2. Move your smart device closer to inverter; 3. Restart inverter; 4. Do 'WiFi Reload' operation refer to user manual.
2	Cannot connect to Solar-WiFi Signal	1. Try password: 12345678; 2. Restart inverter; 3. Make sure there is no other device connected to Solar-WiFi; 4. Do 'WiFi Reload' operation and try again.
3	Cannot login website 10.10.100.253	1. Make sure user name and password you use are both admin; 2. Do 'WiFi Reload' operation and try again; 3. Try another browser (suggest use Google, FireFox, IE, Safari etc.); 4. Make sure website you log in is 10.10.100.253
4	Cannot find router SSID	1. Move router closer to inverter or use a Wi-Fi repeater device; 2. Connect to router and login the setting page to check the channel it uses. Please make sure the channel is not bigger than 13. Otherwise, modify it.

B

Connect to 'Solar-WiFi'

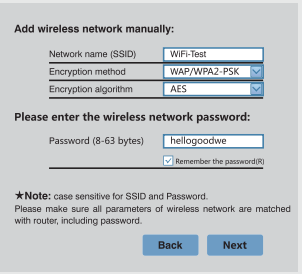
1. Wi-Fi name: solar-Wi-Fi or Solar-WiFi (means the last 8 characters of inverter serial NO.) Password: 12345678
2. Browse website: 10.10.100.253.



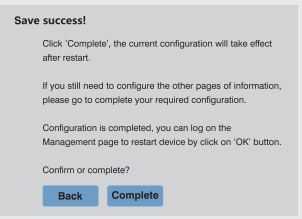
D

Connect to 'Solar-WiFi'

1. Fill in router password and click 'Next'



Please make sure all parameters of wireless network are matched with the router's, including password.



Note:
The 'Solar-WiFi' signal will disappear after inverter connects to WiFi router. Turn off router or do Wi-Fi reload operation via button on inverter if you need connect to 'Solar-WiFi' once again.

E

Troubleshooting

No.	Problem	Checking items
5	Cannot Find Solar-WiFi Signal	1. Restart inverter. 2. Connect to Solar-WiFi and login again, check the 'SSID', 'Security Mode', 'Encryption Type' and 'Pass Phrase' is matching with that of router or not; 3. Connect to router and login to check if the connection reaches the maximum amount or not, and to check the channel of it uses. Please majke sure the channel is not bigger than 13. Otherwise, modify it; 4. Restart router; 5. Move router closer to inverter or use a Wi-Fi repeater device.
6	After configuration, WiFi Led on inverter blink four times repeatedly	1. Connect to the router and visit the portal www.goodwepower.com.cn; 2. Restart router and inverter;